Product Name: Myotubularin Rabbit Polyclonal Antibody
Catalog #: APRab14349

Summary

Production Name	Myotubularin Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MTM1
Alternative Names	MTM1; CG2; Myotubularin
Gene ID	4534.0
SwissProt ID	Q13496.The antiserum was produced against synthesized peptide derived from human Myotubularin. AA range:241-290

Application

Dilution Ratio	WB 1:500-2000, IHC-P 1:50-300
Molecular Weight	70kDa

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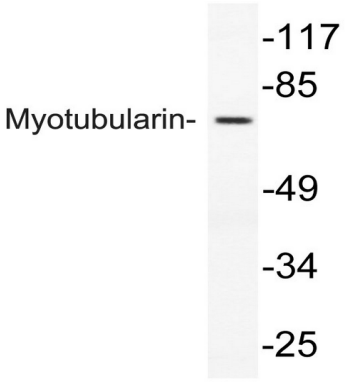
Background

This gene encodes a dual-specificity phosphatase that acts on both phosphotyrosine and phosphoserine. It is required for muscle cell differentiation and mutations in this gene have been identified as being responsible for X-linked myotubular myopathy. [provided by RefSeq, Jul 2008],catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,disease:Defects in MTM1 are the cause of X-linked centronuclear myopathy X-linked (XCNM) [MIM:310400]; also known as X-linked myotubular myopathy (XLMTM) or myotubular myopathy type 1 (MTM1). Centronuclear myopathies are congenital muscle disorders characterized by progressive muscular weakness and wasting involving mainly limb girdle, trunk, and neck muscles. It may also affect distal muscles. Weakness may be present during childhood or adolescence or may not become evident until the third decade of life. Ptosis is a frequent clinical feature. The most prominent histopathologic features include high frequency of centrally located nuclei in muscle fibers not secondary to regeneration, radial arrangement of sarcoplasmic strands around the central nuclei, and predominance and hypotrophy of type 1 fibers.,function:Dual-specificity phosphatase that acts on both phosphotyrosine and phosphoserine. Could be involved in a signal transduction pathway necessary for late myogenesis, although its ubiquitous expression suggests a wider function.,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class myotubularin subfamily.,similarity:Contains 1 GRAM domain.,similarity:Contains 1 myotubularin phosphatase domain.,

Research Area

Image Data



Western blot analysis of lysate from COLO205 cells, using Myotubularin antibody.

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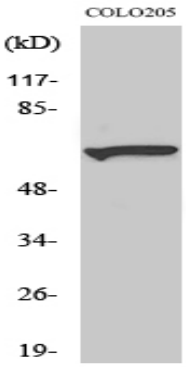

Western Blot analysis of various cells using Myotubularin Polyclonal Antibody diluted at 1：500

Note

For research use only.